

Worksheet 3: Voting Theory (Borda Count & Copeland's Method)

Group Names: _____

1. A different class is voting on what kind of ice cream to have. The choices are strawberry (S), chocolate (C), and vanilla (V). The students in the class ranked their ice cream choices and the following preference table was constructed.

# votes	8	9	6	10
1st choice	S	V	S	C
2nd choice	V	C	C	V
3rd choice	C	S	V	S

- (a) How many students were in the class? _____
- (b) Is there a majority winner? _____
- (c) Who is the plurality winner? _____
- (d) Who is the winner of this election using IRV? (show work below) _____
- (e) Who is the winner of this election using Borda Count? (show work below) _____

Here's the preference schedule again.

# votes	8	9	6	10
1st choice	S	V	S	C
2nd choice	V	C	C	V
3rd choice	C	S	V	S

- (f) Compare all the head-to-head matchups. Who wins in each matchup? Is there a Condorcet winner?

- (g) Who is the winner using Copeland's method?

- (h) Of these four methods, which one do you think was the most fair, and why?